CLAIMS

Please amend the claims as follows:

1. (Cancelled)

2. (Presently amended) An arrangement ~~as defined in claim 1 wherein the home networking gateway comprises:~~ for providing a communication interface between a hybrid fiber coaxial (HFC) network and an in-home communications network, the arrangement comprising:

a home networking gateway disposed to communicate with the HFC network and couple communications to the in-home network, the home networking gateway including a translator for mapping between HFC-based communication protocols and in-home network-based protocols, said home networking gateway for performing device discovery and network management of said in-home network wherein the home networking gateway further comprises

a home network interface connection module for supporting a pre-defined in-home communication protocol;

a voice telephony service connection module, coupled to the home network interface connection module, for providing communication with in-home telephony devices;

a data service connection module for providing communication with in-home data-based devices;

a cable modem connection module for providing communication with the

HFC network;

a communication bus coupled to each of the voice telephone service

connection module, the data service connection module and the cable modem

connection module for enabling communication between each module; and

a translator processor coupled to the communication bus for mapping

between communication protocols used by the HFC network and protocols used

by the in-home network and providing translated protocols with each transaction;

a device database coupled to said home networking gateway and comprising

configuration files associated with various in-home telecommunications devices; and

a service level agreement database coupled to said home networking gateway and

comprising a listing of authorized services for the in-home network, class of service

information and quality of service information.

3. (Original) The arrangement as defined in claim 2 wherein the voice telephony service

connection module comprises a subscriber line interface circuit (SLIC) connection.

4. (Original) The arrangement as defined in claim 2 wherein the data service connection

module comprises an Ethernet connection.

5. (Original) The arrangement as defined in claim 2 wherein the in-home network

protocol is a wireless service protocol.

6. (Original) The arrangement as defined in claim 5 wherein the wireless protocol comprises the Shared Wireless Access Protocol (SWAP).

7. (Original) The arrangement as defined in claim 2 wherein the in-home network protocol comprises the Home Phoneline Network Alliance (HomePNA) protocol.

8. (Original) The arrangement as defined in claim 2 wherein the in-home network protocol comprises the IEEE 1394 FireWire protocol.

9. (Original) The arrangement as defined in claim 2 wherein the home networking gateway further comprises an internal battery power supply.

10. (Currently amended) The arrangement as defined by claim 2 wherein the home networking gateway further comprises a digital signal processor (DSP) coupled between the voice connection module and the home network interface module to ~~distributed~~ distribute voice signals from said voice communication module into the in-home network through said home network interface module.

11. (Currently amended) A method of providing network management for an in-home network of communication devices coupled to an external HFC network through a home networking gateway, the method comprising ~~the steps of~~:

performing, using the home networking gateway, a device discovery process to determine the plurality of devices and services existing in the in-home network;

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reporting the discovered information to an inventory management system;

recognizing at the home networking gateway a service request from an in-home network device;

obtaining authorization for said service from a network management system;

upon authorization, requesting said service from a call management system; and

providing said service to the in-home device;

recognizing at the home networking gateway a device request for bandwidth;

obtaining authorization bandwidth from a network management system;

upon authorization, requesting bandwidth from a cable modem termination system (CMTS);

allocating the requested bandwidth on the HFC network; and

allocating, through the home networking gateway, the requested bandwidth on the in-home network to the requesting device.

12-15. (Cancelled)